

Title (en)

TREATMENT OF WASTE PRODUCTS THAT CONTAIN ORGANIC SUBSTANCES

Title (de)

BEHANDLUNG VON ABFALLPRODUKTEN, DIE ORGANISCHE SUBSTANZEN ENTHALTEN

Title (fr)

TRAITEMENT DE DECHETS CONTENANT DES MATIERES ORGANIQUES

Publication

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Application

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Abstract (en)

[origin: WO9713881A1] The invention relates to a method for treatment of waste products that contain organic materials, such as plastic and like organic materials, and frequently also containing metal values, including precious metals, by thermal processing, without risk of generating dioxins or similar toxic compounds and in a manner which also enables any metal values to be recovered. The method is characterized by charging the waste products to an agitated smelt in a manner which will prevent the products being heated to any significant degree prior to being surrounded by the agitated smelt. The waste products are mixed vigorously in the smelt in the presence of reducible constituents or components at a temperature of at least about 1250 DEG C, wherein plastic and other organic material is decomposed thermally to reduction agents for the reduction of said reducible constituents or components, and therewith converted essentially fully to complete combustion products, such as CO₂ and H₂. Any metal values present are taken out as metal-rich dust and/or metal-rich molten phase, and the metal values can be recovered from the metal-rich products in a suitable known manner. The invention also relates to a method of destroying, or rendering harmless, waste products that contain organic substances, such as plastic or like organic compounds, without the risk of forming dioxins or like toxic compounds.

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